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ABSTRACT

To ascertain the academic performance of Missouri junior college transfer students at the University of Missouri-Columbia, two student populations were compared. The first population was 383 junior-college students who transferred to the University of Missouri-Columbia for the fall 1971 semester. Students (278) who transferred to the university from Missouri four-year colleges for the fall 1971 semester comprised the second population. The two populations were compared on academic entry patterns, persistence, and academic performance (GPA and attrition) from the time of the students' enrollment through the 1973 winter semester. The data were analyzed by statistical techniques. The study data, which are tabulated, show: (1) 80.68 percent of the junior college sample enrolled in the College of Administration and Public Affairs, College of Agriculture, College of Arts and Science, and College of Education; 85.24 percent of the four-year sample entolled in the College of Arts and Science, College of Education, College of Agriculture, and College of Home Economics; (2) 40.20 percent of the junior-college sample failed to continue their enrollment even though they were academically eligible; (3) 24.02 percent of the junior-college sample were suspended or dismissed for academic reasons; (4) on honor-roll eligibility, there were significant differences between the two samples for the 1971 fall and 1972 winter semesters; there were no significant differences between the two samples for the 1972 fall and 1973 winter semesters; (5) a higher percentage of the junior-college sample completed graduation requirements than the four-year sample did; and (6) there was a significant difference between the 1971-72 cumulative grade point averages of the two groups, but there was no significant difference between the 1972-73 cumulative grade point averages. (DB)

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U.S. DEPARTMENT OF HEALTH
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The Academic Performance of Missouri Junior College Transfer Students at the University of Missouri-Columbia

The University of Missouri-Columbia
Admissions Staff

JC 740 428

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TITLE: The Academic Performance of Missouri Junior College Transfer students at the University of Missouri-Columbia.

RESEARCHERS: The University of Missouri-Columbia Admissions Staff.

PURPOSE: To ascertain the academic performance of Missouri junior college transfer students at the University of Missouri-Columbia.

POPULATIONS: The first population of this study was composed of junior college students who transfer to the University of Missouri-Columbia. The sample of this population was junior college students who transferred to the University of Missouri-Columbia and enrolled for the 1971 Fall Semester. The students in this sample were assigned to one of four groups, based on the number of semester hours transferred to the University of Missouri-Columbia. (Group one was composed of students with fifteen to thirty semester hours; group two was composed of students who had earned between thirty-one and fifty-four semester hours; group three was composed of students who had earned fifty-five or more semester hours; and group four was composed of students who had earned the Associate of Arts Degree).

The second population of this study was composed of students who transfer to the University of Missouri-Columbia from Missouri four-year colleges. The sample of this population was Missouri four-year college transfer students who transferred to the University of Missouri-Columbia and enrolled for the 1971 Fall Semester. The students in this sample were assigned to one of four groups, based on the number of semester hours transferred to the University of Missouri-Columbia. (Group one was composed of students with fifteen to thirty semester hours; group two was composed of students who had earned between thirty-one and fifty-four semester hours; group three was composed of students who had earned between fifty-five and fifty-nine semester hours; and group four was composed of students who had earned between sixty and seventy semester hours).

METHOD: The two populations were compared on academic entry patterns, persistence, and academic performance (G.P.A. and attrition) from the time of the student's enrollment at the University of Missouri-Columbia for the 1971 Fall Semester through the 1973 Winter Semester.

The data pertaining to attrition and persistence were analyzed by use of the chi-square statistic. The data pertaining to grade point averages were analyzed by use of the t statistic. The data pertaining to academic entry and completion of graduation requirements were reported in percentages. The Statistical hypotheses were tested using a .05 level of confidence.

ASSUMPTIONS:

1. Semester grades obtained from the students' official transcript are a valid indicator of the students' college academic accomplishment.

2. Students chosen as subjects earned at least a grade point average of "C" prior to transferring to the University of Missouri-Columbia.

LIMITATIONS

1. This study was limited to students who were admitted and who subsequently enrolled at the University of Missouri-Columbia.

2. This study was limited to the investigation and comparison of Missouri junior college and four-year college transfer students who enrolled at the University of Missouri-Columbia for the 1971 Fall Semester.

3. This study does not include transfer students from the other campuses of the University of Missouri.

DEFINITION OF TERMS:

1. Academic dismissal and suspension. Depending on the Academic Division in which they are enrolled, students are dismissed or suspended if their semester grade point averages are 1.0 or below or if they fail half or more of their programs. When dismissed, students are generally eligible to re-enroll in that Academic Division after two semesters. Suspension is of a permanent nature and students are not eligible to re-enroll in the Academic Division from which they were suspended.

2. Academic Performance. A student's achievement, as defined herein, includes only his scholastic record in terms of grades recorded upon his official report card.[1]

3. Admissions Policy. The established procedure followed in admitting students.[2]

4. Attrition. Term used to note students who are suspended or dismissed from the University of Missouri-Columbia for academic reasons.

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[1]Gary L. Smith, "A Comparison of Undergraduate Veterans and Non-Veterans at the University of Missouri-Columbia" (unpublished Doctor's dissertation, University of Missouri-Columbia, June, 1971), p. 8.

[2]Handbook of Data and Definitions in Higher Education (Washington, D. C.: The American Association of Collegiate Registrars and Admissions Officers, 1962), p. 36.

5. Committee on Entrance and Revision of Records. This Committee acts as an agent of the Faculty on cases of admission referred by the Director of Admissions and receives and acts upon petitions by students for revisions in entries concerning grades and credits entered upon the official record card.[3]

6. Grade. A rating or evaluation of a student's achievement.[4]

7. Grade Point Average (GPA). A measure of average scholastic success obtained by dividing the total number of grade points earned by the total number of hours of course work attempted.[5]

8. Persistence. Continuous registration beginning with the 1971 Fall Semester through the 1973 Winter Semester.

ISTITUTIONS STUDIED:

The data used in this study were compiled on students transferring from thirty-two Missouri colleges and universities (fourteen junior colleges and eighteen four-year institutions). Students included in this study were required to be within the minimum and maximum hour limitation; and Missouri colleges and universities were included if at least five of their students transferred to and enrolled at the University of Missouri-Columbia for the 1971 Fall Semester. The junior colleges represented in this study were East Central Junior College, Florissant Valley Community College, Forest Park Community College, Jefferson College, Longview Community College, Maplewood Community College, Meramec Community College, Mineral Area Junior College, Moberly Junior College, Penn Valley Community College, St. Marys Junior College, Three Rivers Junior College, Trenton Junior College, and Wentworth Military Academy. The four-year institutions represented in this study were Central Methodist College, Central Missouri State University, Columbia College, Lincoln University, The Lindenwood Colleges Missouri Baptist College, Missouri Southern College, Missouri Valley College, Missouri Western College, Northeast Missouri State University, Northwest Missouri State University, Rockhurst College, St. Louis University, Southeast Missouri State University, Southwest Missouri State University, Stephens College, Westminster College, and William Woods College.

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[3] Committees, Councils, Boards 1971-72 (Columbia: University of Missouri-Columbia, 1971), p. 5.

[4] Handbook of Data and Definitions in Higher Education, op. cit., p. 38.

[5] Ibid., p. 39.

FINDINGS:

ACADEMIC ENTRY PATTERNS: The data in Table I represent the academic divisions in which students in the samples enrolled for the 1971 Fall Semester. The results are reported in percentages. The junior college sample was composed of 383 students and the four-year college sample was composed of 278 students. It should be noted that 80.68 percent of the junior college sample enrolled in the following academic divisions: College of Administration and Public Affairs, College of Agriculture, College of Arts and Science, and College of Education; and 85.24 percent of the four-year sample enrolled in the following academic divisions: College of Arts and Science, College of Education, College of Agriculture, and College of Home Economics.

PERSISTENCE: Persistence in this study was defined as continuous registration beginning with the 1971 Fall Semester through the 1973 Winter Semester. The data presented in Tables II and III reflect the comparison of the two samples. The data in Table II report the total persistence of the samples and the data in Table III reflect voluntary withdrawal by academic division. It should be noted that when persistence was tested for total persistence and voluntary withdrawal by academic division for the 1972 and 1973 Winter Semesters and the 1973 Fall Semester, there were no significant differences between the two samples. When cumulative persistence was tested, the difference between the two samples was highly significant. It should be further noted that 40.20 percent of the junior college sample failed to continue their enrollment even though they were academically eligible.

ATTRITION: Attrition was measured by the number of students dismissed or suspended for academic reasons at the end of the 1971 Fall, 1972 Winter, or 1973 Fall Semester. Tables IV and V reflect the results of the comparison on attrition by academic divisions and for total academic ineligibility. It should be noted that the tests of significance for the 1972 Fall Semester and cumulative academic ineligibility were significant at the .05 level of confidence. It should be further noted that 24.02 percent (almost one-fourth) of the junior college sample were suspended or dismissed for academic reasons during the two academic years covered by this study.

HONOR ROLL ACHIEVEMENT: The data in Table VI report the academic performance of the two samples as they were compared on eligibility for the honor roll. To be eligible for the honor roll, students must attempt at least twelve hours (academic

TABLE I. ACADEMIC ENTRY PATTERNS

Academic Division	Junior College Students			Four Year College Students	
	Number	Percentage	Number With AA Degree	Number	Percentage
College of Adm. and Public Affairs	42	10.97	18	9	3.24
College of Agriculture	38	9.92	16	23	8.27
College of Arts and Science	159	41.51	18	129	46.40
College of Education	70	18.28	14	67	24.10
College of Engineering	23	6.01	5	16	5.76
School of Forestry, Fisheries, and Wildlife	17	4.44	2	6	2.16
College of Home Economics	14	3.66	2	18	6.47
School of Journalism	11	2.87	4	5	1.80
School of Nursing	4	1.04	0	2	.72
School of Social and Community Services	5	1.31	1	3	1.08
TOTAL	383	100.00	80	278	100.00

TABLE II. TOTAL PERSISTENCE

	Winter, 1972		Fall, 1972		Winter, 1973		Cumulative Persistence	
	Jr. Col. Students	Four-Year Col. Students	Jr. Col. Students	Four-Year Col. Students	Jr. Col. Students	Four-Year Col. Students	Jr. Col. Students	Four-Year Col. Students
Students eligible, however, did not re-enroll	37	23	65	43	52	29	154	95
Students eligible to re-enroll for the semester indicated	305	237	236	191	223	180	127	141
TOTAL	342	260	301	234	275	209	281	236
	$X^2 = 0.640$ (ns) df = 1 P > .05		$X^2 = 0.846$ (ns) df = 1 P > .05		$X^2 = 2.159$ (ns) df = 1 P > .05		$X^2 = 10.87$ df = 1 P < .001	

TABLE III. VOLUNTARY WITHDRAWAL BY ACADEMIC DIVISION

Academic Divisions	Winter, 1972		Fall, 1972		Winter, 1973	
	Jr. Col. Students	Four-Year Col. Students	Jr. Col. Students	Four-Year Col. Students	Jr. Col. Students	Four-Year Col. Students
College of Administration and Public Affairs	5	0	5	3	5	2
College of Agriculture	2	0	1	1	3	2
College of Arts and Science	19	14	39	22	26	15
College of Education	6	5	14	10	10	6
College of Engineering	1	2	4	2	-	-
School of Forestry, Fisheries & Wildlife	1	0	-	-	3	2
College of Home Economics	2	2	2	3	3	2
School of Journalism	-	-	-	-	1	0
School of Nursing	1	0	0	1	1	0
School of Social and Community Services	-	-	0	1	-	-
TOTAL	37	23	65	43	52	29
	$X^2 = 7.313$ (ns) df = 7 P > .05		$X^2 = 4.475$ (ns) df = 7 P > .05		$X^2 = 1.237$ (ns) df = 7 P > .05	

TABLE IV. ACADEMIC INELIGIBILITY

	Winter, 1972		Fall, 1972		Winter, 1973		Cumulative Academic Ineligibility	
	Jr. Col. Students	Four-Year Col. Students	Jr. Col. Students	Four-Year Col. Students	Jr. Col. Students	Four-Year Col. Students	Jr. Col. Students	Four-Year Col. Students
Students on Academic Suspension or Dismissal	41	18	45	21	6	3	92	42
Students Eligible to Continue Enrollment	342	260	297	239	291	236	291	236
TOTAL	383	278	342	260	297	239	383	278
	$X^2 = 3.545$ (ns) df = 1 P > .05		$X^2 = 3.906$ (S) df = 1 P < .05		$X^2 = 0.469$ (ns) df = 1 P > .05		$X^2 = 5.318$ df = 1 P < .05	

TABLE V. ACADEMIC INELIGIBILITY ACADEMIC DIVISION

Academic Division	Winter, 1972		Fall, 1972		Winter, 1973*	
	Jr. Col. Students	Four-Year Col. Students	Jr. Col. Students	Four-Year Col. Students	Jr. Col. Students	Four-Year Col. Students
College of Administration and Public Affairs	6	3	6	2	-	-
College of Agriculture	1	1	3	1	0	1
College of Arts and Science	24	8	19	11	5	2
College of Education	5	5	10	6	-	-
College of Engineering	3	0	1	0	1	0
School of Forestry, Fisheries & Wildlife	1	0	1	1	-	-
College of Home Economics	1	1	3	0	-	-
School of Journalism	-	-	1	0	-	-
School of Nursing	-	-	1	0	-	-
TOTAL	41	18	45	21	6	3
	$X^2 = 4.756$ (ns) df = 6 P > .05		$X^2 = 3.925$ (ns) df = 8 P > .05		*Cells too small for a test of significance.	

TABLE VI. HONOR ROLL ACHIEVEMENT

	Fall, 1971		Winter, 1972		Fall, 1972		Winter, 1973	
	Jr. Col. Students	Four-Year Col. Students	Jr. Col. Students	Four-Year Col. Students	Jr. Col. Students	Four-Year Col. Students	Jr. Col. Students	Four-Year Col. Students
Students Eligible for Membership	54	68	58	65	80	65	85	78
Students Not Eligible for Membership	329	210	284	195	217	174	206	158
TOTAL	383	278	342	260	297	239	291	236
	$X^2 = 11.489$ (S) df = 1 P < .001		$X^2 = 5.874$ (S) df = 1 P < .02		$X^2 = 0.004$ (ns) df = 1 P = >.05		$X^2 = 0.900$ (ns) df = 1 P > .05	

division regulations on Physical Education and ROTC have varied since the 1972 Fall Semester) and earn at least a 3.000 grade point average. It should be noted that there were significant differences (beyond the .05 level of confidence) between the two samples for the 1971 Fall and 1972 Winter Semesters. It should be further noted that there were no significant differences between the two samples for the 1972 Fall and 1973 Winter Semester.

The honor roll eligibility pattern might suggest that "transfer shock" was working and that the junior college transfer student recovered during the 1972-73 academic year.

GRADUATION: The data in Table VII represent the number of students in the two samples who transferred at least fifty semester hours to the University of Missouri-Columbia and completed the requirements for graduation by the end of the 1973 Fall Semester. It should be noted that a higher percentage of junior college transfer students completed graduation requirements than four-year college students. This might be indicative of two things: (1) junior college students plan their programs so that their transfer facilitates completion of degree requirements and (2) closer coordination exists between the junior colleges and the University of Missouri-Columbia than is generally recognized.

GRADE POINT AVERAGE: Tables VIII, IX, X and XI report the comparisons of the two samples on grade point averages. Table VIII reflects the comparison of cumulative grade point averages of the two samples which were compiled at the end of the 1972 and 1973 Winter Semesters. It should be noted that there was a significant difference (beyond the .001 level of confidence) between the 1971-72 cumulative grade point averages. It should be further noted that there were no significant differences between the 1972-73 cumulative grade point averages.

Table IX shows the comparison of grade point averages by groups between the two samples. Group one for junior college students was composed of students with fifteen to thirty semester hours; group two was composed of students who had earned between thirty-one and fifty-four semester hours; group three was composed of students who had earned fifty-five or more semester hours; and group four was composed of students who had earned the Associate of Arts Degree. It was interesting to note that only eighty (20.88%) of the junior college students had earned the A.A. Degree. Group one of the four-year college students was composed of students with fifteen to thirty semester hours; group two was composed

TABLE VII. STUDENTS COMPLETING REQUIREMENTS FOR GRADUATION

	Junior College Students	Four-Year College Students
Number of Students with Fifty or more Transfer Hours	197	118
Number of Students Completing Graduation Requirements	117	65
Percentage of Students Completing Graduation Requirements within Five Semesters	59.39%	55.08%

TABLE VIII. COMPARISON OF CUMULATIVE GRADE POINT AVERAGES

	Winter, 1972 (Collected at end of Semester)		Winter, 1973 (Collected at end of Semester)	
	Jr. Col. Students	Four-Year Col. Students	Jr. Col. Students	Four-Year Col. Students
Mean	2.300	2.533	2.691	2.742
Standard Deviation	0.646	0.627	0.654	0.656
Number of Students	307	240	222	179
	$t = 4.2595$ $df = 545$ $P < .001$		$t = 0.776$ $df = 399$ $P > .05$	

	UMC CLASS AVERAGE				
CUM GPA	1	2	3	4	TOTAL
	2.5044	2.5997	2.7137	2.7074	2.6617
0-0.4999	5	2			7
.5-1.4999	266	58	36	5	365
1.5-2.4999	1556	1444	1293	1174	5467
2.5-3.4999	1435	1483	1698	1821	6437
3.5-4.0000	316	245	323	268	1152
TOTAL	3578	3232	3350	3268	13428

	UMC CLASS AVERAGE				
CUM GPA	1	2	3	4	TOTAL
	2.5384	2.6370	2.7015	2.7670	2.6972
0-0.4999	10	2			12
.5-1.4999	256	63	41	6	366
1.5-2.4999	1355	1335	1405	1173	5268
2.5-3.4999	1406	1488	1870	2062	6826
3.5-4.0000	316	282	335	372	1305
TOTAL	3343	3170	3651	3613	13777

of students who had earned between thirty-one and fifty-four semester hours; group three was composed of students who had earned between fifty-five and fifty-nine semester hours; and group four was composed of students who earned between sixty and seventy semester hours.

The data were not subjected to a statistical treatment because: (1) a prior agreement was made with the Research Committee and (2) the chi square statistic, t statistic, and percentage were not appropriate to treat the data.

Table X shows the comparisons of junior college cumulative grade point averages with the 1971 and 1972 Fall Semesters, the 1972 and 1973 Winter Semesters, and the University of Missouri-Columbia cumulative grade point averages. It should be noted that the number of t tests which were significant decreased each semester after the 1971 Fall Semester. The decrease in the number of significant tests of significance might be attributed to two factors: (1) the transfer shock and/or (2) the longer students remain in college, the more like their fellow students they become.

Table XI shows the comparisons of four-year college cumulative grade point averages with the 1971 and 1972 Fall Semesters, the 1972 and 1973 Winter Semesters and the University of Missouri-Columbia cumulative grade point averages. It should be noted that the four-year colleges had fewer significant t tests than the junior colleges. It was not possible to further test the data in Tables X and XI because of the limitation on statistical treatments.

TABLE IX. COMPARISONS OF GRADE POINT AVERAGES BY GROUPS

Groups	Transfer Mean GPA		1971-72 Cumulative GPA		1972-73 Cumulative GPA	
	Jr. Col. Students	Four-Year Col. Students	Jr. Col. Students	Four-Year Col. Students	Jr. Col. Students	Four-Year Col. Students
1 (15-30 hours)	2.773	2.730	2.219	2.516	2.462	2.678
2 (31-54 hours)	2.706	2.725	2.190	2.645	2.652	2.845
3 (55 or more--Jr. Col.) (55-59--4 yr. Col.)	2.776	2.678	2.451	2.495	2.851	2.802
4 (AA--Jr. Col.) (60-70--4 yr. Col.)	2.953	2.773	2.453	2.556	2.799	2.813
TOTAL	2.808	2.740	2.328	2.554	2.711	2.773

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TABLE X. COMPARISON OF JUNIOR COLLEGE CUMULATIVE GPA AND UMC SEMESTER AND CUMULATIVE GPA

Junior College	Transfer GPA			Fall, 1971					Winter, 1972					Fall, 1972					Winter, 1973					UMC Cumulative GPA				
	Mean	S.D.	N	Mean	S.D.	N	t	df	Mean	S.D.	N	t	df	P	Mean	S.D.	N	t	df	P	Mean	S.D.	N	t	df	P	Mean	S.D.	N	t	df	P
A	2.966	0.548	30	2.256	0.888	30	3.6[illegible]*	58	2.400	0.792	28	3.339*	54	<	2.806	0.5[illegible]	24	1.[illegible]	[illegible]	>	2.984	0.564	23	0.062	44	>	2.702	0.531	23	1.729	44	>
B	2.771	0.501	19	2.321	0.657	18	2.[illegible]*	35	2.410	0.678	15	1.476	28	>	2.538	0.[illegible]	14	1.[illegible]	[illegible]	>	2.764	0.485	14	0.110	26	>	2.575	0.354	14	1.191	26	>
C	3.002	0.701	15	2.247	0.727	15	2.[illegible]*	28	2.695	0.307	14	0.851	26	>	2.[illegible]	0.[illegible]	[illegible]	1.[illegible]	[illegible]	>	2.822	0.784	13	0.071	24	>	2.674	0.477	13	0.674	24	>
D	2.998	0.436	8	2.049	1.038	8	2.[illegible]	14	2.324	0.804	6	2.044	10	>	2.350	0.736	4	1.[illegible]	[illegible]	>	2.460	0.390	4	1.[illegible]	[illegible]	>	2.411	0.600	4	1.[illegible]	[illegible]	>
E	3.105	0.504	12	2.612	0.845	12	1.[illegible]	22	2.733	0.647	12	1.496	22	>	3.048	0.538	[illegible]	.[illegible]	[illegible]	>	3.145	0.716	8	-0.261	14	>	3.018	0.543	8	0.112	14	>
F	2.722	0.513	51	2.012	0.801	51	5.[illegible]*	[illegible]	2.134	0.704	38	3.978*	75	<	2.662	0.[illegible]	[illegible]	.[illegible]	[illegible]	>	2.563	0.598	27	1.516	53	>	2.434	0.554	29	2.739*	56	<
G	2.656	0.654	8	1.899	0.645	8	2.[illegible]*	14	2.131	0.372	7	1.595	12	>	2.152	0.[illegible]	7	1.[illegible]	[illegible]	>	2.425	0.431	5	-0.042	8	>	2.173	0.293	5	0.[illegible]	8	>
H	2.827	0.493	6	2.301	0.897	6	1.1[illegible]*	[illegible]	2.526	1.022	6	0.592	10	>	3.044	0.[illegible]	3	-0.3[illegible]	[illegible]	>	2.970	0.728	3	-0.246	4	>	2.839	0.566	3	-0.009	4	>
I	2.596	0.413	14	1.753	0.637	14	3.9[illegible]*	26	2.001	0.806	13	2.410*	24	<	1.894	0.[illegible]	9	2.49[illegible]*	[illegible]	<	2.334	0.894	7	0.873	12	>	2.309	0.400	7	1.870	12	>
J	2.809	0.476	150	2.128	0.790	147	8.[illegible]*	295	2.326	0.747	116	6.369*	231	<	2.592	0.[illegible]	[illegible]	3.12[illegible]*	[illegible]	<	2.743	0.665	84	1.785	167	>	2.582	0.598	85	3.850*	168	<
K	2.514	0.493	19	2.063	0.729	19	2.[illegible]*	36	2.276	0.626	15	0.806	28	>	2.553	0.[illegible]	10	0.10[illegible]	[illegible]	>	2.748	0.663	10	-0.784	19	>	2.435	0.600	11	0.384	20	>
L	2.881	0.648	14	2.132	0.662	14	2.[illegible]*	26	2.498	0.469	9	0.802	16	>	2.450	0.[illegible]	6	1.[illegible]	[illegible]	>	2.915	0.434	6	0.162	10	>	2.614	0.419	6	1.159	10	>
M	2.803	0.481	13	2.397	0.678	13	1.[illegible]	24	2.309	0.892	12	1.750	22	>	3.078	0.[illegible]	[illegible]	-0.[illegible]	[illegible]	>	3.022	0.605	8	-0.144	14	>	2.932	0.498	8	0.104	14	>
N	2.757	0.363	17	2.010	0.848	17	3.2[illegible]*	32	2.322	0.541	15	2.561*	28	<	2.569	0.[illegible]	13	0.782	24	>	2.679	0.531	12	0.255	22	>	2.339	0.560	12	1.873	22	>
				* = 9					* = 5						* = 2						* = 0						* = 2					

< = P<.05
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TABLE XI. COMPARISON OF FOUR-YEAR COLLEGE CUMULATIVE GPA AND SEMESTER AND CUMULATIVE GPA

FOUR-YEAR COLLEGE	Transfer GPA			Fall, 1971					Winter, 1972					Fall, 197-					Winter, 1973					UC CUMULATIVE GPA				
	Mean	S.D.	N	Mean	S.D.	N	t	df	P	Mean	S.D.	N	t	df	P	Mean	S.D.	N	t	df	P	Mean	S.D.	N	t	df	P	Mean	S.D.	N	t	df	P
A	3.119	0.333	8	2.824	0.460	8	1.374	8	>	2.863	0.889	8	0.879	14	>	2.713	0.779	8	1.279	14	>	2.933	0.374	7	-0.727	13	>	2.739	0.627	8	1.341	14	>
B	2.835	0.509	34	2.326	0.683	33	2.068	5	>	2.484	0.709	31	2.284*	60	>	2.615	0.742	23	0.777	43	>	2.610	0.698	22	0.616	43	>	2.507	0.574	23	1.287	44	>
C	2.840	0.507	30	2.197	0.806	28	3.590*	56	<	2.437	0.782	23	2.720*	44	<	2.395	0.825	19	1.295	36	>	2.810	0.959	18	0.370	34	>	2.633	0.815	18	1.430	34	>
D	2.888	0.396	10	2.120	0.587	10	3.250*	18	<	2.444	0.719	9	1.593	16	>	2.843	0.419	8	0.600	14	>	3.215	0.345	8	-0.952	14	>	2.796	0.339	8	1.104	14	>
E	2.655	0.551	9	2.192	0.848	9	1.321	16	>	2.597	0.482	8	0.092	14	>	2.261	0.408	5	0.029	8	>	2.721	0.486	5	-1.430	8	>	2.483	0.335	5	-0.277	10	>
F	2.617	0.295	6	2.335	0.842	6	0.705	10	>	3.033	0.432	4	-1.019	8	>	3.321	0.176	3	-2.853*	4	<	3.633	0.140	3	-3.390*	4	<	3.268	0.270	3	-1.697	4	>
G	2.479	0.292	5	2.148	0.487	5	1.165	8	>	2.797	0.418	5	2.685*	8	<	1.940	0.540	3	1.214	4	>	2.933	0.130	3	-1.869	4	>	2.118	0.141	3	1.369	4	>
H	2.709	0.434	18	2.429	0.746	18	1.337	34	>	2.369	0.678	16	0.832	30	>	2.650	0.745	14	0.363	26	>	2.781	0.688	13	-0.041	24	>	2.759	0.436	13	0.081	24	>
I	2.698	0.479	6	2.738	0.540	6	0.122	10	>	2.283	0.540	5	1.352	8	>	2.441	0.420	4	0.371	6	>	2.679	0.612	3	0.450	4	>	2.323	0.313	3	0.544	4	>
J	2.696	0.542	7	2.152	0.993	7	1.178	12	>	1.959	0.671	6	2.243*	10	<	2.318	0.228	4	1.189	6	>	2.930	0.494	4	-0.059	6	>	2.597	0.339	4	0.866	6	>
K	2.684	0.480	15	2.628	0.379	15	0.270	28	>	2.539	0.737	12	0.484	22	>	2.738	0.619	13	-0.257	24	>	2.970	0.805	12	0.482	22	>	2.676	0.443	12	0.000	22	>
L	2.861	0.460	22	2.681	0.763	22	0.924	42	>	2.743	0.823	22	0.569	42	>	2.993	0.708	16	-0.252	30	>	3.079	0.594	15	-0.944	28	>	2.943	0.482	15	-0.266	28	>
M	2.764	0.406	27	2.429	0.694	27	2.123*	52	<	2.604	0.546	22	0.865	42	>	2.514	0.530	17	0.971	33	>	2.673	0.506	17	0.091	32	>	2.579	0.393	17	0.829	32	>
N	2.738	0.636	37	2.716	0.839	37	0.129	72	>	2.782	0.829	32	-0.026	62	>	2.983	0.689	26	-0.967	50	>	2.895	0.756	23	-0.257	44	>	2.966	0.629	23	-0.649	44	>
O	2.628	0.467	18	2.557	0.667	17	0.332	33	>	2.391	0.550	13	0.332	25	>	2.636	0.657	11	0.829	20	>	2.804	0.487	10	0.190	18	>	2.677	0.536	10	0.632	18	>
P	2.500	0.196	5	3.096	0.666	4	-1.673	7	>	3.127	0.332	4	-3.065*	6	<	2.916	0.117	3	-2.197	4	>	2.923	0.340	3	-1.116	4	>	3.194	0.193	3	-3.502*	4	<
Q	2.724	0.289	9	2.177	0.329	9	3.331*	16	<	2.241	0.525	9	2.279*	16	<	2.608	0.294	6	0.674	12	>	2.597	0.392	7	0.560	12	>	2.400	0.370	7	1.749	12	>
R	2.706	0.593	10	2.067	0.736	10	2.028	18	>	2.479	0.534	10	0.665	18	>	2.479	0.399	7	0.769	12	>	2.930	0.489	7	-0.675	12	>	2.626	0.483	8	0.576	14	>
				* = 4						* = 6						* = 1						* = 1						* = 1					

> = P>.05

< = P<.05